

ABSTRACT

A method and apparatus are disclosed. The method includes one or more of the following: compiling statistical models of physical layers of a communications system; creating a priori distributions of cross-talk transfer functions; storing the models and the *a priori* distributions in a storage medium; and using the models and the *a priori* distributions to diagnose probable causes of events detected in said communications system.

1. A method for diagnosing probable causes of events detected in a communications system, comprising: compiling statistical models of physical layers of the communications system; creating a priori distributions of cross-talk transfer functions; storing the models and the a priori distributions in a storage medium; and using the models and the a priori distributions to diagnose probable causes of events detected in the communications system.